

This listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims:

Claim 1 (currently amended): Apparatus for formation of polarizers from ~~a~~ lyotropic liquid ~~crystals~~ ~~crystal~~ (LLC) ~~based on~~ ~~of~~ at least one organic compound comprising:

} at least one system for ~~application of~~ applying the LLC onto at least one substrate supported on ~~at least one~~ ~~a~~ substrate holder,

at least one system for applying orienting force on ~~the~~ LLC ~~and/or on the molecules~~ ~~and/or on the molecular supra-complexes of the organic compound, and~~

~~a means for supporting wherein said systems for applying the LLC and for applying orienting force are moveable relative to with the possibility of relative movement between the systems and said at least one said substrate holder,~~

wherein said at least ~~said~~ one system for applying orienting force comprises at least one plate, one end of which is fixed such that during relative movement of the plate and the substrate holder at least a part of the plate's surface travels unrestricted over the surface of the applied ~~film~~ LLC providing an external orienting force on ~~the~~ LLC ~~and/or molecules and/or supra-molecular complexes of the organic compound.~~

Claim 2 (currently amended): Apparatus according to Claim 1 wherein said at least one system for ~~application of~~ applying the LLC includes means ~~of~~ ~~for~~ feeding the LLC onto the substrate.

Claim 3 (currently amended): Apparatus according to Claim 2 wherein said ~~at least one~~ means ~~of~~ ~~for~~ feeding ~~the~~ LLC comprises at least one injector.

Claim 4 (currently amended): Apparatus as in Claim 2 wherein said ~~at least one~~ means for feeding ~~the~~ LLC comprises at least one roller.

Claim 5 (currently amended): Apparatus as in Claim 2 which ~~includes~~ ~~comprises~~ at least one channel with metering dispenser.

Claim 6 (currently amended): Apparatus according any of Claims 1-3 wherein said at least one system for ~~application of applying~~ the LLC comprises at least one element for application applying the LLC onto the substrate and at least one roller.

Claim 7 (currently amended): Apparatus as in Claim 2 in which said at least one system ~~application of for applying the~~ LLC onto the substrate ~~includes comprises~~ at least one doctor blade or rod.

Claim 8 (currently amended): Apparatus according to Claim 6 wherein on the surface of the at least one roller there is a relief pattern.

Claim 9 (original): Apparatus according to any of Claims 1, 2, or 7 wherein at least a part of the surface of the plate possesses hydrophilic or hydrophobic qualities.

Claim 10 (currently amended): Apparatus according to any of Claims 1, 2, or 7 wherein at least on a part of the surface of the ~~plate(s)~~ plate there is a relief (~~pattern~~) pattern.

Claim 11 (currently amended): Apparatus according to any of Claims 1, 2, or 7 wherein the ~~plate(s) plate is (are)~~ made out of a polymer material or rubber or at least two different materials ~~comprising separate parts of the plate(s) and/or comprising the layers of the plate(s)~~.

Claim 12 (currently amended): Apparatus according to Claim 2 wherein said at least one system ~~of application for applying the LLC~~ is ~~installed with the possibility of vertical movement vertically moveable~~ relative to the substrate ~~holder(s)~~ holder.

Claim 13 (currently amended): Apparatus according to Claim 2 wherein said at least one system ~~of application is installed with the possibility of horizontal movement for applying the LLC is horizontally moveable~~ relative to the substrate holder.

Claim 14 (currently amended): Apparatus according to Claim 1 wherein said at least one system ~~of application for applying the LLC~~ is implemented as at least one fixed roller, which is ~~installed with the possibility of movement moveable~~ to force the plate to the ~~LLC film under formation~~.

Claim 15 (original): Apparatus according to Claim 1 wherein the plate is implemented in a rectangular shape.

Claim 16 (currently amended): Apparatus according to Claim 1 ~~wherein it is additionally supplied with further comprising~~ at least one anti-vibration means.

Claim 17 (currently amended): Apparatus according to Claim 1 ~~wherein it is additionally supplied with further comprising~~ a system of automatic control ~~over the process of formation~~.

Claims 18-29 (canceled)

Claim 30 (currently amended): The apparatus according to Claim 1 wherein one end of the ~~plate(s) plate is (are) fastened on one and/or different holders with the system(s) of application or directly on to the~~ at least one system of application for applying the LLC.

Claim 31 (currently amended): The apparatus according to Claim 1 wherein ~~the~~ at least one system of application for applying the LLC is implemented as at least one fixed roller, which is ~~installed with the possibility of movement moveable~~ to provide clasping of the ~~plate(s) plate to the film(s) under formation~~ LLC.

Claim 32 (currently amended): The apparatus according to Claim 1 wherein ~~the~~ at least one system of ~~for applying~~ orienting force is ~~additionally supplied provided~~ with at least one means of clasping of the ~~plate(s) to the film(s) under formation~~ plate to the LLC.

Claims 33-39 (canceled)

Claim 40 (currently amended): Apparatus according to Claim 1 further comprising:
at least one system of feeding a solvent of the ~~film's material polarizer formed,~~
implemented in at least one directing channel, and

at least one discharging and/or vacuum system for removal of the solvent and dissolved LLC.

Claim 41 (previously presented): Apparatus according to Claim 40 wherein the system of feeding and the system of removal are installed so that their longitudinal axes are situated in the direction perpendicular to the plane of the substrate holder.

Claim 42 (currently amended): Apparatus according to Claim 40 or 41 wherein the system of feeding and the system of removal are ~~mounted for vertical and/or horizontal movement vertically and/or horizontally moveable~~.

Claim 43 (currently amended): Apparatus according to Claim 40 ~~further including a substrate holder wherein the system of feeding, and the systems system of removal on one hand, and the substrate holder on the other, are mounted for relative movement are moveable~~ with respect to one another.

Claim 44 (currently amended): Apparatus according to Claim 40 wherein the system of feeding and the system of removal are ~~mounted for relative movement moveable~~ with respect to one another.

Claim 45 (currently amended): Apparatus according to Claim 40 wherein the system of feeding and the ~~systems system~~ of removal comprise coaxial tubes, and the inner diameter of the tube for removal is larger than the inner diameter of the tube for feeding of solvent.

Claim 46 (currently amended): Apparatus according to Claim 40 wherein the ~~system(s)~~ system of feeding and the ~~systems system~~ of removal are mounted at a fixed distance from each other.

Claims 47-58 (canceled)